



MARINE AVIATION ISNS NETWORKS



***SPAWARSYSCOM
PMW-151***



Vision Statement

✦ For SPAWARSYSCOM to Continue to provide Marine Corps Aviation Units in Garrison, Sea-Based and Deployed with integrated, interoperable ISNS network infrastructure, network management and information distribution services to support all required client applications.



Goals and Objectives

- ✦ *To Continue to provide ISNS' technical, engineering, planning, design, installation and life cycle support.*
- ✦ *To further enhance existing ISNS infrastructure and incorporate those components of the Marine Corps Tactical Network to provide LAN topology, servers, and network management capability in support of Marine Aviation Units*



Goals and Objectives

- ✦ *ISNS Combat Survivability and Availability*
 - *Everything is based on “Can it go to War”*
 - *Train in Garrison as you would work in a Theater-of-Operations*
- ✦ *To present quantifying data that will provide the necessary supporting arguments for Marine Aviation to operate solely as an ISNS Platform*



Today's Situation

✦ The current Information Systems employed by Marine Aviation Units are complex entities, that are growing more and more complex everyday. Marine Aviation has crossed the threshold of total dependency on the Information Systems provided by various System Commands



How Did We Get Here?

- ✦ ***For more than two decades SPAWARSCOM has provided Marine Aviation Units with network infrastructure in support of logistic application required to support Aircraft Mission Readiness.***
- ✦ ***These Systems expanded to provide additional IT support and capability to the Marine Aviation Units and soon included IT applications sponsored by MARCORPSYSCOM***
- ✦ ***In 1996 MALS-29 received the first IT21/ISNS network installed by SPAWARSCOM***
- ✦ ***By the end of 2000 all MALS were operating on an ISNS network***



ISNS Operational Focus

- ✦ Streamline IT Services to Support the Warfighter***
- ✦ Ability to Manage and Monitor***
- ✦ Flexible and Adaptable to the Warfighters Requirements***
- ✦ Must facilitate Rapid Technology fielding***
- ✦ As a wrench is to a mechanic, IT Services should be a transparent tool for the users***
- ✦ Eliminate Single Points of Failure utilizing redundant technology or provide on-site support packages to cover SPF issues***



ISNS Operational Focus

- ✦ ISNS provides the INTEGRATION of required applications through known DOD operational interfaces***
- ✦ Endorsed by CINCPACFLT and CINCLANTFLT N6 for integration***
- ✦ Permits direct input on the development and employment of new COTS/GOTS Applications for Marine Aviation Units via SPAWARSCOM and MARCORSYSCOM***
- ✦ ISNS is based on experience of operating a multidimensional IT environment that permits Marine Aviation to seamlessly integrate into and operate as part of the MAGTF or a member of Joint Forces Commands***



SCOPE OF IMPLEMENTATION

***✦ Norm Hutson and Marc
O'Connor***



Funding Issues

- ⊕ ISNS is Fiscally Prudent - Annually NMCI will cost the Marine Aviation in excess of \$35M dollars more than ISNS. It is in the best interest of the Corps and Naval Aviation to utilize an ISNS funded path rather than NMCI***



Funding Issues

✚ Funding Breakdowns

✚ Identified Funds FY04 SPAWARSYSCOM PMW-151

- *Infrastructure - \$1.25M*
- *Electronics/PC/Printer/Servers - \$465K (Includes POR & Funds Provided by MAWs)*

✚ Identified Funds FY05 SPAWARSYSCOM PMW-151

- *Infrastructure/DLKs - \$3.5M (POR)*
- *Electronics/PC/Printer/Servers - \$574K (POR Funds)*

✚ Identified Funds FY06 SPAWARSYSCOM PMW-151

- *Scheduled to Receive Full Funding- \$18.6M*
- *Infrastructure/DLKs - \$3.5M (POR)*
- *Electronics/PC/Printer/Servers - \$574K (POR Funds)*



Funding Alternative

- ✦ ***Purchase all equipment through SPAWARSCOM***
- ✦ ***Cost to Purchase NMCI Workstations FY04***
- ✦ ***12000 devices X \$ 234.00 X 12 months = \$ 33,696,000.00/yr***



Funding Alternative

✦ Annual Cost for ISNS

✦ <i>REFRESH WORKSTATIONS EVERY FOUR YEARS</i>	
<i>\$5,550,000.00</i>	
✦ <i>REFRESH PRINTERS EVERY FOUR YEARS</i>	<i>\$1,760,000.00</i>
✦ <i>REFRESH NETWORKS EVERY FOUR YEARS</i>	<i>\$7,250,000.00</i>
✦ <i>ON-SITE SUPPORT 8 CIVILIANS PER MAW</i>	<i>\$2,248,000.00</i>
✦ <i>ANNUAL MAINTENANCE & TRAINING</i>	<i>\$3,250,000.00</i>
✦ <i>PROCURE DEPLOYMENT KITS ANNAULLY</i>	<i><u>\$1,000,000.00</u></i>
<i>Total Annual Cost</i>	<i>\$ 21,058,000.00</i>



Funding Alternative

✦ For an Annual Cost Savings of:

\$ 12,638,000.00



Conclusion

- *The ISNS initiative, which involves acceleration of Command, Control, Communications, and Computer (C4) programs, is being implemented as a team effort between the Marine Aviation, CNO N6 & N7, the Space and Naval Warfare Systems Command, and the Naval Computer and Telecommunications Command.*
- *ISNS significantly improves Marine Aviation's warfighting capability, reduces operating and support costs and enhances the quality of life of deployed Units. It does so by providing Marine Aviation with an essential, modern "information network" to enable "Network Centric Warfare" and warfare support.*